

## ECS Configuration Change Request

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Page(s)

<b>1. Originator</b> Jenny Boliek	<b>2. Log Date:</b> 11/12/02	<b>3. CCR #:</b> 02-0998	<b>4. Rev:</b> -	<b>5. Tel:</b> 301-925-1122	<b>6. Rm #:</b> 2058	<b>7. Dept.</b> SE
<b>8. CCR Title:</b> TE_6A.06_STMG.T.07A						
<b>9. Originator Signature/Date</b>  /s/ Jenny Boliek 11/12/02			<b>10. Class</b>  II	<b>11. Type:</b>  CCR	<b>12. Need Date:</b> 11/08/02	
<b>13. Office Manager Signature/Date</b>  /s/ Arthur Cohen 11/12/02			<b>14. Category of Change:</b> Update ECS Baseline Doc.		<b>15. Priority:</b> (If "Emergency" fill in Block 27). Emergency	
<b>16. Documentation/Drawings Impacted</b> (Review and submit checklist): None			<b>17. Schedule Impact:</b>		<b>18. CI(s) Affected:</b> STMG.T	
<b>19. Release Affected by this Change:</b> 6A		<b>20. Date due to Customer:</b> Nov 8. 2002		<b>21. Estimated Cost:</b> None - Under 100K		
<b>22. Source Reference:</b> <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: See list of NCRs listed below. Primary driver for the is CCR is installation of the Custom Code to use WU FTP COTS product.						
<b>23. Problem: (use additional Sheets if necessary)</b> ECSed35051- GSFC/SMC: StRequestManager coded in OPS ECSed34512 - GSFC/SMC: Need Support on FtpPull Monitor Configuration/Statistics ECSed35443 - DDIST blocked by Archive Table Cleanup Proc The primary driver of this CCR is to deliver a Custom Code fix for using WU FTP (NCR 34512) On next page NCRs released in TE_6A.06_STMG.T.06 are also listed.						
<b>24. Proposed Solution: (use additional sheets if necessary)</b> Provide TE_6A.06_STMG.T.07A to GSFC DAAC. TE MUST be installed on top of the Patch_6A.06_EOC.01A and TE_6A.06_STMG.T.05 (YOU MUST NOT SKIP TE_6A.06_STMG.T.05)						
<b>25. Alternate Solution: (use additional sheets if necessary)</b> Leave problems until next DSS Patch delivered to DAAC						
<b>26. Consequences if Change(s) are not approved: (use additional sheets if necessary)</b> GSFC will not have the STMG.T fixes for NCRs listed above. They will be unable to take advantage of the use of WU FTP. This Custom Code better facilitates clean up the User Pull Area.						
<b>27. Justification for Emergency (If Block 15 is "Emergency"):</b> GSFC requested TE to fix NCRs listed above.						
<b>28. Site(s) Affected:</b> <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
<b>29. Board Comments:</b>			<b>30. Work Assigned To:</b>		<b>31. CCR Closed Date:</b>	
<b>32. EDF/SCDV CCB Chair (Sign/Date):</b> /s/ Randall J. Miller 11/12/02			<b>Disposition:</b> <span style="border: 1px solid red; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
<b>33. M&amp;O CCB Chair (Sign/Date):</b> /s/ Pamela Johnson 11/12/02			<b>Disposition:</b> <span style="border: 1px solid red; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
<b>34. ECS CCB Chair (Sign/Date):</b>			<b>Disposition:</b> Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

# ADDITIONAL SHEET

**CCR #:** 02-0998      **Rev: - Originator:** Jenny Boliek

**Telephone:** 301-925-1122      **Office:** 2058

**Title of Change:** TE\_6A.06\_STMGT\_07A

Actions

ClearCase Group (CSG)

Please build one SOL8 tar file with the following packages:

.EcDsStMediaIngest.pkg (needed for PVC, VATC, and EDC only)  
.EcDsStGUI.pkg  
.EcDsStRequestManager.pkg

Please build an IRIX65 tar file with the following packages:

.EcDsStArchive.pkg  
.EcDsStDatabase.pkg  
.EcDsStIngestFtp.pkg  
.EcDsStPullMonitor.pkg

Please name these tar files TE\_6A.06\_STMGT.07A

7 NCRs will be included in this delivery for GSFC only. If released to other DAACs only the first 3 NCRs will be delivered.

ECSed35051 OPS\_STMGT 2 T GSFC DAAC GSFC/SMC: StRequestManager cored in OPS  
ECSed34512 OPS\_STMGT 2 M GSFC DAAC GSFC/SMC: Need Support on FtpPull Monitor Configuration/Statistics  
ECSed35443 OPS\_DBDM 2 R PVC Ddist blocked by Archive Table Cleanup Proc

NCR 35051 was previously delivered as Engineering Software. It was then merged and will now be officially delivered.

The following NCRs were delivered in TE\_6A.06\_STMGT.06, since GSFC plans to skip TE\_6A.06\_STMGT.06, they will get these fixes now by installing from the TE\_6A.06\_STMGT.07 tar file(s). GSFC previously received Engineering Software for NCR 35695.

ECSed35501 OPS\_STMGT 2 T GSFC DAAC Client hung on ArDelete in STMGT  
ECSed35528 OPS\_STMGT 2 T PVC CMCopyInto requests sometimes hang  
ECSed35599 OPS\_STMGT 2 T EDC DAAC ArRetrieveFile can hang if waking up server is slow  
ECSed35695 OPS\_STMGT 1 T EDC DAAC OPS:FTP directories not there

PATCH/TE DEPENDENCIES: TE\_6A.06\_STMGT.07A replaces all of STMGT. The only requirement is the DAAC MUST have installed Patch\_6A.06\_EOC.01A and TE\_6A.06\_STMGT.05 (The STMGT database should be patched up to database patch number 6265 before installing this patch.) TE\_6A.06\_STMGT.07A will replace all previous Engineering Software.

DAAC Install Instructions

This installation will be completed in 2 phases. Phase 1 supports testing WU FTP COTS and Custom Code on the g0acg01 host. Phase 2 installs the rest of the software on the remaining STMGT hosts. Phase 2 helps us better support troubleshooting of any STMGT problems and also fully delivers the remaining NCRs listed above.

## PREINSTALLATION PHASE 1:

1. cp \*sun5.8\* <staging\_area>/SOL8
2. cp \*irix65\* <staging\_area>/IRIX65
3. Untar the files using the \*Setup.ksh files. The tar files with sun5.8 in their name should be untarred in <staging\_area>/SOL8 directory. The tar files with the irix65 in their name should be untarred in a <staging\_area>/IRIX65 directory
4. cd <staging\_area>/IRIX65/CUSTOM/dbms/
5. chmod -R 775 \*
6. Ensure the latest version of the WU FTP COTS distribution has been installed on the g0acg01 host. The latest version contains a cron job for "rolling over" the xferlog (log where all FTPs will now be logged.) on a daily basis at midnight. The logs will be kept for 7 days and then recycled. The new Pull Monitor will read this log on a configurable periodic basis and will determine how to mark files/directories for cleanup in the Pull Area. If the new distribution is not at GSFC, then a cron job must be put in place to cleanup the xferlog(s).
7. Kill all STMGT servers on all hosts and the STMGT GUI.

## INSTALLATION PHASE 1:

1. First you must install the code that was delivered as part of TE\_06.06\_STMGT.06.

On EACH g0drgnn host copy the following libraries from the <staging\_area>/IRIX65

- a. cd /usr/ecs/<MODE>/CUSTOM/lib/DSS
  - b. cp <staging\_area>/IRIX65/lib/DSS/libDsStArServerSh.so .
  - c. cp <staging\_area>/IRIX65/lib/DSS/libDsStArClientAsyncSh.so .
  - d. cp <staging\_area>/IRIX65/lib/DSS/libDsStArClientSyncSh.so .
  - e. cp <staging\_area>/IRIX65/lib/DSS/libDsStCmServerSh.so .
  - f. cp <staging\_area>/IRIX65/lib/DSS/libDsStCmClientSh.so .
  - g. cd /usr/ecs/<MODE>/CUSTOM/bin/DSS
  - h. cp <staging\_area>/IRIX65/bin/DSS/EcDsStArchiveServer .
  - i. cp <staging\_area>/IRIX65/bin/DSS/EcDsStCacheManagerServer .
2. Bring up E.A.S.I on the g0dis02 host and install the following packages only on g0acg01 and g0dis02
    - .EcDsStArchive.pkg
    - .EcDsStDatabase.pkg
    - .EcDsStPullMonitor.pkg
    - .EcDsStGUI.pkg

## CONFIGURATION PHASE 1

1. Exit out of the E.A.S.I and bring up the EcsAssist Subsystem Manager on g0dis02.
2. Using EcsAssist Subsystem Manager install the /usr/ecs/<MODE>/CUSTOM/.installed/DSS/stmgt/.rgypatch. This will add two new parameters to all the EcDsStCacheManagers and the EcDsStPullMonitorServer. These new parameters are:

TransferRetentionDays -- The default value is set to 3 (days). This value is not used at this time.  
CompletionStatusRelevant - The default value is set to false. This value is required as this time. (This has to be set to the default in case a user uses compression when he pulls files.)

3. Bring up the STMGT GUI
4. Click on the Storage Config tab
5. Click CACHE MANAGER to display a list of Cache Managers

6. From the list of Cache Managers listed click on EcDsStCacheManagerServerPULL and then click on Modify Server
7. In the window for FTP Notification File insert the name of the directory and file of the log where WU FTP writes. NOTE: THIS USED TO BE ONLY A DIRECTORY NAME. NOW IT IS BOTH THE DIRECTORY NAME AND FILENAME.  
Recommended value is: /var/log/xferlog (MAKE SURE THIS IS A VALID DIRECTORY)
8. Set the value of the FTP Notification Freq (Sec). This is the number of seconds between times the EcDsStPullMonitorServer will read the log set in step 7. The recommended value is 1800 (every 30 minutes).

When the Pull Monitors finds a file in xferlog that is in the Pull Area the Pull Monitor will mark that file available for deletion. The file will be deleted at the current expiration time or 8 hours from when the file is listed in the log, whichever comes first.

#### DATABASE PATCHES for PHASE 1

1. Logon to the host where the STMGT DB package is installed (g0acg01)
2. Bring up EcsAssist Subsystem Manager and patch the Database to Patch 6273. (REMEMBER, the STMGT database must be at Patch 6265 BEFORE the database is patched)

Three Patches will be executed. They are:

Patch 6268 -- Fixes for NCRs 35501 and 35695 This updates the following stored procedures:

- DsDtGrRequestCompleted
- DsStCMDeleteExpiredLiens
- DsStCMSelectExpiredLiens
- DsStCMPeriodic

Patch 6271 -- Fixes for NCR 34512 (WU FTP) This updates the following stored procedure:

- DsStCMCleanupOrSleep

Patch 6273 -- Fixes for NCR 35448 -Updates the following stored procedures:

- DsStRMDeleteDdistArchiveTables
- DsStRMDeleteDdistArchive

There are no schema changes associated with any of the database patches. (You can wait and install Patch 6273 later until phase 2 of the Installation)

When you run the Database patches you will see the following message in the EcsAssist window:

Msg 208, Level 16, State 2:

Line 39:

DsStGrCITempGR not found. Specify owner.objectname or use sp\_help to check whether the object exists (sp\_help may produce lots of output).

This is not an ERROR. This happens because this table is owned by EcDsStRequestManager instead of the DBO. This has already been documented in NCR ECSed35944.

#### POST INSTALLTION PHASE 1

1. On the g0acg01 host only:
  - a. cd /usr/ecs/<MODE>/CUSTOM/cfg
  - b. ls -l SLCsocks5.conf
  - c. Determine the copy of the SLCsocks5.conf that contains the correct firewall information (usually you can tell by size)
  - d. cp the correct verions of the SLCsocks5.conf.<time\_stamp> SLCsock5.conf
2. Bring up all the STMGT servers and the STMGT GUI if desired.

THIS COMPLETES THE MINIMAL INSTALLATION FOR TESTING WU FTP ON THE g0acg01 host.

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PHASE 2 INSTALLATION -- To be completed after initial testing of WU FTP COTS and associated Custom Code changes.

PRE INSTALLATION PHASE 2-

1. Bring down all STMGT SERVERS on the g0dis02 and g0drgnn hosts.

## INSTALLATION PHASE 2

Bring up E.A.S.I on any Sun in the system and install all of STMGT (You will not need to install on g0acg01 if you do not want to)

## CONFIGURATION PHASE 2

All completed in PHASE 1

## DATABASE PATCH - PHASE 2

If Patch 6273 in PHASE 1 was installed in phase 1, then bring up EcsAssist on the g0acg01 host and install patch 6273. (See DATABASE PATCHES PHASE 1 for details.)

## POST INSTALLATION PHASE 2

1. Do the following steps after logging on to each host where the EcDsStCacheManger or the EcDsStFtpServer is installed:

- a. `cd /usr/ecs/<MODE>/CUSTOM/cfg`
- b. `ls -l SLCsocks5.conf*`
- c. Determine the copy of the SLCsocks5.conf that contains the correct firewall information (usually you can tell by size)
- d. `cp` the correct versions of the SLCsocks5.conf.<time\_stamp> SLCsock5.conf.

2. Bring up all the STMGT servers and the STMGT GUI if desired.

3. Do the following steps on every host where the EcDsStCacheManager is installed (Optional)

- a. Bring up EcsAssist Subsystem Manager
- b. Run the Mkcfcg for EcDsStCacheManager
- c. On g0acg05 also run the Mkcfcg for EcDsStPullMonitorsServer
- d. Exit out of EcsAssist Subsystem Manager
- e. `cd /usr/ecs/<MODE>/CUSTOM/cfg`
- f. Copy the EcDsSt\*.CFG files to EcDsSt\*.CFG.rgy files